

PA-989  
ORIGINAL  
(Red)

I.D. # 300365

APR 7 1971  
16163

APPLICATION FOR PERMIT FOR SOLID WASTE  
DISPOSAL OR FOR PROCESSING FACILITIES

SEE INSTRUCTIONS ON REVERSE.

<p>1. APPLICANT (Name and Address) Eastern Diversified Metals Corp. P.O. Box 311 (Hometown) Tamaqua, Penna. 18252 Schuylkill County TELEPHONE NUMBER 717-668-3991</p>	<p>2. AUTHORIZED AGENT (Name and Address) John T. Hays, Asst. Plant Mgr. Eastern Diversified Metals Corp. P. O. Box 311 (Hometown) Tamaqua, Penna. 18252 Schuylkill Co TELEPHONE NUMBER 717-668-3991</p>
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<p>3. PROPERTY OWNER (Name and Mailing Address) Eastern Diversified Metals Corp. P. O. Box 311 (Hometown) Tamaqua, Penna. 18252</p>	<p>4. TYPE OF OPERATION Industrial Landfill <input type="checkbox"/></p> <p>5. NAME OF SITE Eastern Diversified Metals Corp. Landfill</p>
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<p>6. LOCATION OF SITE</p> <table border="1"> <tr><th colspan="4">MEASURED FROM SOUTHEAST CORNER</th></tr> <tr><th colspan="2">NORTH</th><th colspan="2">WEST</th></tr> <tr><th>INCHES</th><th>FRAC. IN.</th><th>INCHES</th><th>FRAC. IN.</th></tr> <tr><td>14</td><td>4</td><td>17</td><td>0</td></tr> <tr><th>MAP NUMBER</th><th colspan="2">LATITUDE</th><th>LONGITUDE</th></tr> <tr><td>5865</td><td>40° 49' 45"</td><td>75° 59' 54"</td><td></td></tr> </table>	MEASURED FROM SOUTHEAST CORNER				NORTH		WEST		INCHES	FRAC. IN.	INCHES	FRAC. IN.	14	4	17	0	MAP NUMBER	LATITUDE		LONGITUDE	5865	40° 49' 45"	75° 59' 54"		<p>CITY - BOROUGH - TOWNSHIP Rush Township <input type="checkbox"/></p> <p>COUNTY Schuylkill County</p> <p>NUMBER OF ACRES 25 <input type="checkbox"/></p> <p>MAP IDENTIFICATION Tamaqua, 7½ min., 1969 P. R.</p>
MEASURED FROM SOUTHEAST CORNER																									
NORTH		WEST																							
INCHES	FRAC. IN.	INCHES	FRAC. IN.																						
14	4	17	0																						
MAP NUMBER	LATITUDE		LONGITUDE																						
5865	40° 49' 45"	75° 59' 54"																							

<p>7. SOIL TESTS CONDUCTED BY Frank A. Kopas, Soil Scientist <input checked="" type="checkbox"/> Yes Soil Conservation Service Schuylkill Haven, Penna. <input type="checkbox"/> No DATE MO 3 DA 23 YR 71 <input type="checkbox"/> N/A</p>	<p>8. ENGINEERING PLANS PREPARED BY <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No DATE MO DA YR <input type="checkbox"/> N/A</p>
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<p>9. SOLID WASTE MANAGEMENT PLAN Not part of county plan. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>10. APPLICANT/AUTHORIZED AGENT (Signature) <i>[Signature]</i> MO 3 DA 25 YR 71</p>
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<p>BONDING COMPANY (Name and Address)</p>	<p>AGENT LICENSE NUMBER BOND VALUE</p>
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FOR DEPARTMENT OF HEALTH USE ONLY

<p>DATE RECEIVED MO DA YR <input type="checkbox"/> SUITABLE <input type="checkbox"/> UNSUITABLE</p>	<p>DATE OF SITE SURVEY MO DA YR</p>	<p>TOPO MAP <input type="checkbox"/> COMPLETE <input type="checkbox"/> INCOMPLETE SITE PLAN <input type="checkbox"/> COMPLETE <input type="checkbox"/> INCOMPLETE DESIGN PLAN <input type="checkbox"/> COMPLETE <input type="checkbox"/> INCOMPLETE</p>
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LIMITATIONS AND RESTRICTIONS

<p>REVIEWING OFFICER (Signature)</p>	<p>TITLE</p>	<p>DATE APPROVED MO DA YR</p>
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AR101227

4-1-71

SOLID WASTE DISPOSAL AND/OR PROCESSING  
SITE APPLICATION MODULE  
PHASE I

ORIGINAL  
(Red)

For Department of Health Use Only

PREPARED BY (Name & Address)

Todd Giddings, 623 West Foster Ave., State College, Penna. 16801

PART I - LAND DISPOSAL FACILITY

A. SITE IDENTIFICATION

1. NAME OF SITE Eastern Diversified Metals Corp. Landfill

2. ADDRESS OF SITE R. D. 2  
Tamaqua, Penna. 18252

3. SITE ACQUISITION (Check Appropriate Block)

PRESENTLY OWNED  
 WILL PURCHASE

WILL LEASE FOR \_\_\_\_\_ YEARS  
 WILL RENT

4. OWNER OF RECORD (Name & Address) Eastern Diversified Metals Corp.  
P. O. Box 311 (Hometown)  
Tamaqua, Penna. 18252

B. FACILITY INFORMATION

1. IS THIS AN EXISTING FACILITY?  Yes  No

2. IS THIS A PROPOSED FACILITY?  Yes  No

PART II - GOVERNMENTAL APPROVAL

A. SITE APPROVAL FROM COUNTY AND MUNICIPALITY

1. IF THE SITE WILL BE IN A MINE, HAS THE PROPOSED SITE BEEN APPROVED BY THE COUNTY IN WHICH THE SITE IS LOCATED?  Yes  No

2. HAS THE PROPOSED SITE BEEN APPROVED BY THE MUNICIPALITY IN WHICH IT WILL BE LOCATED?  Yes  No

B. REQUIREMENTS

1. ARE THERE ANY CERTIFICATES, PERMITS, OPERATION REQUIREMENTS, OR LICENSES REQUIRED BY ANY OF THE FOLLOWING:

A. MUNICIPALITY? (If Yes, Describe) \_\_\_\_\_  Yes  No

B. PLANNING COMMISSION? (If Yes, Describe) \_\_\_\_\_  Yes  No

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B. REQUIREMENTS - CONTINUED

- C. COUNTY? (If Yes, Describe) \_\_\_\_\_  Yes  No
- D. STATE DEPARTMENT OF MINES AND MINERALS? (If Yes, Describe) \_\_\_\_\_  Yes  No
- E. OTHER? (If Yes, Describe) \_\_\_\_\_  Yes  No

C. ZONING

1. CLASSIFICATION OF SITE Not Zoned
2. ENFORCEMENT AGENCY None
3. WILL ZONING OF SITE PERMIT SANITARY LANDFILL?  Yes  No
4. RESTRICTIONS (If Any) None

5. ADJACENT PROPERTIES WITHIN A QUARTER-MILE (Check Appropriate Blocks Which Indicate The Use Of Adjacent Properties Surrounding The Site)

	North	East	South	West
A. RESIDENTIAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. COMMERCIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. LIGHT INDUSTRIAL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. HEAVY INDUSTRIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. AGRICULTURAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. MIXED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. NONE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

PART III - SOIL AND GEOLOGICAL CHARACTERISTICS

A. LOCATION - A COPY OF THE USGS TOPOGRAPHIC MAP MUST BE ATTACHED TO EACH COPY OF THE APPLICATION; USE 7.5 MINUTE QUADRANGLE MAP, IF PUBLISHED.

1. SITE LOCATION (Include The Name Of The USGS Topographic Map, Indication Of 7.5 Or 15.0 Minute Quadrangles, Year of Publication, Inches North And West Of Southeast Corner, And Latitude And Longitude).

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A. LOCATION - CONTINUED

A. 14.4 INCHES NORTH, 17.0 INCHES WEST OF SOUTHEAST CORNER OF  7.5'  
 15.0'  
QUADRANGLE MAP, (Date) Tamaqua, 1969 P. R., also Delano, 1954

B. 40 DEG, 49 MIN, 45 SEC N LATITUDE

C. 75 DEG, 59 MIN, 54 SEC W LONGITUDE

2. TOPOGRAPHIC SETTING (Hillside, Flood Plain, Strip Mine, Quarry, Field, Etc.) Hillside

3. PLOT ON TOPOGRAPHIC MAP THE FOLLOWING:

A. LOCATION AND EXTENT OF PROPOSED LANDFILL

red line

B. LOCATION OF: (Place the following information on the Topographic Map if it is within the site or within a quarter-mile of the outer perimeter of the site. Check each item placed on map with an (\*) or appropriate symbol below.)

(1) WELLS

labelled

(2) SPRINGS

spring symbol

(3) SWAMPS

none

(4) STREAMS

stream symbol

(5) PUBLIC WATER SUPPLIES

none

(6) OTHER BODIES OF WATER

none

(7) UNDERGROUND AND SURFACE MINES

none

(8) MINING SPOIL PILES

none

(9) MINE POOL DISCHARGE POINTS (Even if a discharge point is farther than a quarter-mile from the site)

none

(10) ELEVATION OF MINE POOLS

none

(11) GAS AND OIL WELLS

none

(12) AREAL EXTENT OF MINE POOLS

none

B. SOILS

1. LIST ALL SOIL SERIES AND PHASES WITHIN THE SITE:

A. 69B2, Meckesville channery loam, 3 to 8% slopes, Moderately eroded

B. \_\_\_\_\_

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B. SOILS - CONTINUED

- C. \_\_\_\_\_
- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_
- G. \_\_\_\_\_
- H. \_\_\_\_\_
- I. \_\_\_\_\_
- J. \_\_\_\_\_
- K. \_\_\_\_\_

2. LIST ALL SOIL SERIES AND PHASES TO BE USED AS COVER MATERIAL:

- A. 69B2, Meckesville channery loam, 3 to 8% slopes,  
moderately eroded.
- B. \_\_\_\_\_
- C. Colluvium underlying the Meckesville channery loam.
- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_
- G. \_\_\_\_\_
- H. \_\_\_\_\_
- I. \_\_\_\_\_
- J. \_\_\_\_\_
- K. Soil maps for this area are not yet published.

3. A COPY OF SOIL MAP OR REFERENCES TO SITE LOCATION ON PUBLISHED SOIL SURVEY MUST BE INCLUDED.

C. GROUND WATER GEOLOGY

1. GLACIAL GEOLOGY

- A. TYPE OF DEPOSIT(S) not present

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C. GROUND WATER GEOLOGY - CONTINUED

B. TEXTURE OF DEPOSIT(S) Not present

C. THICKNESS OF DEPOSIT(S) Not present

2. BEDROCK

A. TYPE(S) Interbedded shales, siltstones, and sandstones

B. DEPTH TO weathered bedrock: 4 to 7 feet

C. EXTENT OF WEATHERING Deeply weathered

D. NAME AND AGE OF FORMATION(S) Mauch Chunk formation, Mississippian

3. STRUCTURE

A. BASIC DESCRIPTION OF STRUCTURE south limb of the Broad Mountain  
Anticline

B. STRIKE AND DIP OF BEDS N56°, 7°SW

C. DIRECTION OF PLUNGE west-southwest

D. FRACTURES (Strike and Dip, Type, Spacing)

	Strike And Dip	Type	Spacing (State Inches or Feet)	Indicate If Open or Closed
(1) JOINTS	<u>N84°E, 84°NW</u>	<u>irregular</u>	<u>2 to 4 feet</u>	<u>closed</u>
(2) CLEAVAGE	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>
(3) FAULTS	<u>                    </u>	<u>                    </u>	<u>                    </u>	<u>                    </u>

E. FOLDS (MINOR FOLDING)

(1) TYPE: ANTICLINE Broad Mtn. Anticline SYNCLINE

(2) STRIKE AND PLUNGE OF FOLD AXIS strike ENE-WSW, plunge WSW

4. GROUND WATER

A. DEPTH TO GROUND WATER 10.15 feet on 3-25-71 (drilled well)

(1) HOW DETERMINED measured in drilled well adjacent to site

(2) SEASONAL VARIATION estimated to be 15 feet

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C. GROUND WATER GEOLOGY - CONTINUED

(3) IF DEPTH TO GROUND WATER CANNOT BE DETERMINED, IT IS RECOMMENDED THAT ONE BORING OR WELL NEAR THE HIGHEST ELEVATION OF THE PROPOSED SITE BE DRILLED TO A DEPTH OF 10 FEET INTO THE GROUND WATER OR 10 FEET INTO BEDROCK, WHICHEVER IS DEEPEST (Maximum Depth - 150 Feet).

(A) LOCATE THE WELL OR BORING ON ACCOMPANYING TOPOGRAPHIC MAP. \_\_\_\_\_

(B) PROVIDE A COMPLETE LOG (Description of Well) \_\_\_\_\_

(C) INDICATE THE METHOD OF DRILLING \_\_\_\_\_

B. DIRECTION(S) OF GROUND WATER MOVEMENT south, southwest, and west  
(If more than one direction of ground water flow, indicate those directions also.)

C. DISCHARGE OF GROUND WATER (Must be indicated on USGS Topographic Map). springs labelled

(1) DISTANCE AND DIRECTION TO DISCHARGE POINT(S) springs are at south edge of site

(2) NAME(S) OF DISCHARGE POINT(S) unnamed springs and stream tributary to the Little Schuylkill River  
(Springs, Streams, Etc.)

(3) AREA TRIBUTARY TO DISCHARGE POINT(S) hillside underlying site

D. HOW WAS INFORMATION DETERMINED? field study of site area and springs on the site and adjacent to it. Also a water table level was measured in a well 300 feet north of the site.

5. SURFACE WATER

A. FLOODING HAZARD FREQUENCY IS 0 TIMES IN 100 YEARS.

B. WILL THERE BE A DISCHARGE OF LEACHATE TO SURFACE WATERS?

Yes  No

C. WILL LEACHATE COLLECTION AND TREATMENT FACILITIES BE CONSTRUCTED?

Yes  No

(1) IF YES, HAVE YOU APPLIED FOR A SANITARY WATER BOARD PERMIT FOR COLLECTION, TREATMENT, AND DISCHARGE OF THE LEACHATE?

Yes  No

6. SUBSURFACE INFORMATION (Detailed information is needed on subsurface conditions for a proper analysis of the site. This information on soils, geology and ground water may be determined from deep cuts, borings, and wells; backhoe pits and natural outcrops; or artificial cuts.)

A. ARE THERE NATURAL OUTCROPS OR ARTIFICIAL CUTS IN THE VICINITY OF THE SITE?  
(Road cuts, railroad cuts, strip mines, quarries, etc.)

Yes  No

(1) DEPTH OF CUT OR THICKNESS OF OUTCROP outcrop is 8 feet high

(2) LOCATION OF CUT OR OUTCROP (Show on Topographic Map) labelled; bedrock outcrop

4-1-71

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C. GROUND WATER GEOLOGY - CONTINUED

- (3) REASON FOR OPENING CUT bedrock exposed in the wall of a borrow pit
- (4) DETAILED DESCRIPTION OF CUT OR OUTCROP The bedrock outcrop is exposed in the wall of a borrow pit north of the site. The sandstone and shale is deeply weathered and the joints are filled with clay and sand.
- A 12 foot deep trench was excavated at the site and is labelled "Borrow area." Here a channery loam soil profile was present on colluvium extending to a depth of 7 feet. Sandstone boulders in this colluvium are up to 1 foot in diameter. From 7 to 10 feet weathered red shale sandstone is exposed. From 10 to 12 feet weathered grey to white sandstone is present. This bedrock is well weathered and thus is easily excavated. Below 12 feet less weathered bedrock is present.

B. COMPLETE WHERE INSUFFICIENT INFORMATION IS AVAILABLE TO COMPLETE 6A ABOVE.

HAVE BORINGS OR CUTS BEEN MADE FOR SITE EVALUATION?

Yes  No

(An adequate number of borings or cuts should be made to a depth of 5 feet into the ground water or to bedrock or to 20 feet below the proposed or existing base of the landfill.)

- (1) LOCATE THE CUT(S) OR BORING(S) ON THE ACCOMPANYING TOPOGRAPHIC MAP. labelled; borrow area
- (2) PROVIDE THE COMPLETE LOG(S) (DESCRIPTION) OF THE CUT(S) OR BORING(S). see C-4 above
- (3) INDICATE THE METHOD OF DRILLING OR MAKING CUTS trench cut by a 1/2 yard capacity power shovel

Note: The houses located north of the plant have domestic wells. Other houses and buildings have municipal water.

The soil material thickness at the site varies due to the variation in the thickness of the colluvium overlying the weathered bedrock. Scattered sandstone boulders are present on the ground surface and throughout the colluvium.

The depth to the water table under the site ranges from 1 foot at the springs to 15 feet and more under thick colluvium.

Several seeps of leachate are present at the toes of the industrial waste piles.